Bureau of Land Management



Amarillo Field Office Helium Operations

Statistical Report for June - 2000





Distribution:

Fluid Minerals Group Manager, Washington Office

New Mexico State Director

Associate State Director

Petroleum Engineer

Field Manager, Amarillo Field Office

Division Chiefs (3)

Team Leaders

- -Federal Leased Lands
- -Gas Analysis
- -Resources Evaluation
- -Natural Gas Engineering

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Amarillo, Texas

Issued: September 27, 2000

* Revised *

*Tables include COMPANY PROPRIETARY INFORMATION (shaded) and is for internal use only.

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Approved for distribution: Nelson R. Bullard /s/
Date: 09/27/2000

Table 1 - Summary of Helium Operations

June - 2000

| In Kind Sales | NASA* | Navy* | Army* | Air Force* | DOE* | Other Fed* | Subtotal* | In Kind | Charges B | illed (\$)** | | |
|--------------------|--------|-------|-------|------------|--------|------------|-----------|---------|-----------|--------------|--|--|
| Total month | 22,847 | 123 | 0 | 9,240 | 11,514 | 15,062 | 58,786 | 57,876 | | \$2,864,862 | | |
| Total FYTD | 97,396 | 1,404 | 0 | 27,644 | 33,251 | 22,977 | 182,673 | 179,846 | | \$8,873,524 | | |
| Total CYTD | 64,742 | 945 | 0 | 17,005 | 22,086 | 19,143 | 123,920 | 122,002 | | \$6,039,168 | | |
| In Kind Transfers | | | | | | | Month | FYTD | CYTD | Cumulative | | |
| Transferred | | | | | | | 529 | 178,900 | 121,970 | 424,488 | | |
| Volume outstanding | | | | | | | 57,876 | | | | | |

| | | Month | | Month | FYTD | Month | FYTD | FYTD | CYTD | Cumulative |
|---|-------------|---------|-----------|---------------------------|--------|-------|---------|---------------------|-------------|-------------|
| | Helium-Gas | Helium | | Low Purity lium Helium | | Belo | w 50% | Contained Helium | | |
| Purchased Helium | Mixture | Percent | Helium | | | He | lium | | | |
| Total purchased | | | | | | | | | | 32,176,145 |
| Purchased helium produced / transferred | | | 529 | | | | | 178,900 | 121,970 | 2,409,828 |
| Balance of purchased helium in storage | | | | | | | | | | 29,766,317 |
| Private Plant Activity | | | | | | | | | | |
| Accepted in storage system | 92,756 | 70.75% | 65,625 | 783 | 15,501 | (156) | (1,929) | 702,808 | 466,422 | 5,714,963 |
| Redelivered from storage system | n (236,311) | 69.84% | (165,035) | 0 | 0 | 71 | 1,664 | (1,139,868) | (811,679) | (4,890,072) |
| Total apparent crude produced/ | 248,893 | 71.13% | 177,047 | | | | | 1,686,661 | 1,105,808 | NA |
| Total apparent crude refined^ | (341,927) | 70.48% | (240,996) | | | | | (1,789,576) | (1,231,334) | NA |

| | Transfe | Transferred Gas | | Charges Billed | | | | | | |
|----------------------------------|-----------|-----------------|-----------|----------------|------------|--------|------------|-----------|-----------|-------------|
| | Gross Gas | Helium | | Helium | | Не | elium | Helium | Dolla | ars** |
| Storage Contract Activity | Mon | ıth | FYTD | CYTD | Cumulative | Month | Cumulative | EOM | Month | FYTD |
| Crude Acquired | 92,028 | 65,469 | 700,879 | 465,685 | 23,095,064 | 64,226 | 22,790,095 | | | |
| Crude Disposed | 236,265 | 164,964 | 1,138,204 | 811,579 | 16,716,262 | 63,697 | 22,365,338 | | | |
| Grade-A Rdlvrd | 0 | 0 | 0 | 0 | 1,427,554 | 0 | 0 | | | |
| Net/Balance | (144,237) | (99,495) | (437,325) | (345,894) | 4,951,248 | 529 | 424,757 | 4,682,159 | \$211,849 | \$1,643,013 |

| Bush Dome Reservoir Operations | Month | | Fiscal Year | | Since Start of Conservation Program | | Since Field Discovery | |
|--|-------------|------------|-------------|------------|--|------------|--------------------------|------------|
| Conservation gases from all sources | Gross | Net | Gross | Net | Gross | Net | Gross | Net |
| In underground storage, beg. of period | 47,797,153 | 34,494,023 | 48,270,503 | 34,836,504 | 490,620 | 490,620 | 0 | 0 |
| Net Activity | (136,958) | (99,563) | (610,308) | (442,044) | 47,169,575 | 33,903,840 | 47,660,195 | 34,394,460 |
| Total in underground storage | 47,660,195 | 34,394,460 | 47,660,195 | 34,394,460 | 47,660,195 | 34,394,460 | 47,660,195 | 34,394,460 |
| Native Gas | | | | | | | | |
| Total in place, beg. of period | 209,017,510 | | 209,039,114 | | 265,724,755 | | 318,727,000 | |
| Net Activity | (5,425) | | | | | | | |
| Total in place, end of month | 209,012,085 | | | | | | | |
| Native Gas plus Conservation Gases | | | | | | | | |
| Total gases in place, beg. of period | 256,814,663 | | 257,309,617 | | 266,215,375 | | 318,727,000 | |
| Net Activity | (142,383) | | (637,337) | | (9,543,095) | | (62,054,720) | |
| Total gases in place, end of month | 256,672,280 | | 256,672,280 | | 256,672,280 | | 256,672,280 | |

| Helium Resources Evaluation | | | Month | | FYTD | |
|--|-----------|---------|-----------|----|-------------|-----|
| Revenue Collected from Federal Lease Holds | | | \$293,385 | | \$2,845,200 | |
| Helium Sample Collection Report | Submitted | 70 | Received | 70 | Analyzed | 209 |
| | | | | | | |
| Customer Comment Cards Mailed | <u> </u> | | Month | 0 | FYTD | 17 |

Table 5 - Pipeline & Cliffside Field Operations All Volumes in Mcf at 14.65 psia & $60^{\circ}F$

June - 2000

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|-------------|------------|-------------|------------|--------------|------------|-----------------|------------|
| | | | | | Since St | tart of | Since | |
| | Mon | ıth | Fiscal | Year | Conservation | n Program | Field Discovery | |
| | Gross | Net | Gross | Net | Gross | Net | Gross | Net |
| Conservation Pipeline | | | | | | | | |
| Beginning of period inventory (1) | 19,913 | 13,939 | 18,919 | 13,243 | 0 | 0 | | |
| Measured to pipeline (2) | 235,139 | 165,286 | 1,637,129 | 1,146,770 | 101,144,435 | 72,454,127 | | |
| Measured from pipeline (3) | 236,311 | 165,036 | 1,639,003 | 1,139,877 | 35,411,265 | 25,472,715 | | |
| Measured into Bush Dome (4) | 0 | 0 | 2,152 | 1,512 | 64,353,584 | 46,235,012 | | |
| Calculated inventory (1+2-3-4) | 18,741 | 14,189 | 14,893 | 18,624 | 1,379,586 | 746,400 | | |
| End of period inventory | 19,901 | 13,931 | 19,901 | 13,931 | 19,901 | 13,931 | | |
| Line gain or (loss) | 1,160 | (259) | 5,008 | (4,693) | (1,359,685) | (732,469) | | |
| Percent gain (loss) of total measured | 0.246% | -0.078% | 0.153% | -0.205% | -0.677% | -0.508% | | |
| Bush Dome Reservoir Operation | ons | | | | | | | |
| Conservation gases from all sources | | | | | | | | |
| In underground storage, beg. of period | 47,797,153 | 34,494,023 | 48,270,503 | 34,836,504 | 490,620 | 490,620 | 0 | C |
| Injected during period to date | 0 | 0 | 2,152 | 1,512 | 64,353,855 | 46,234,973 | 64,961,755 | 46,842,873 |
| Withdrawn during period to date | 136,958 | 99,563 | 612,460 | 443,556 | 17,230,429 | 12,377,282 | 17,347,709 | 12,494,562 |
| Helium from Exell-Soncy | 0 | 0 | 0 | 0 | 46,149 | 46,149 | 46,149 | 46,149 |
| Total in underground storage | 47,660,195 | 34,394,460 | 47,660,195 | 34,394,460 | 47,660,195 | 34,394,460 | 47,660,195 | 34,394,460 |
| Native Gas | | | | | | | | |
| Total in place, beg. of period | 209,017,510 | | 209,039,114 | | 265,724,755 | | 318,727,000 | |
| Recoverable in place, beg. of period | 199,966,510 | | 199,988,114 | | 256,673,755 | | 309,676,000 | |
| Production during period to date | 5,425 | | 27,029 | | 56,712,670 | | 109,714,915 | |
| Total in place, end of month | 209,012,085 | | 209,012,085 | | 209,012,085 | | 209,012,085 | |
| Recoverable in place, end of month | 199,961,085 | | 199,961,085 | | 199,961,085 | | 199,961,085 | |
| Native Gas plus Conservation Gases | | | | | | | | |
| Total gases in place, beg. of period | 256,814,663 | | 257,309,617 | | 266,215,375 | | 318,727,000 | |
| Total gases in place, end of month | 256,672,280 | | 256,672,280 | | 256,672,280 | | 256,672,280 | |
| Change during period | (142,383) | | (637,337) | | (9,543,095) | | (62,054,720) | |
| Ave. reservoir pressure, beg. of period | 674.4 | Г | 675.8 | | 685.0 | ſ | 814.1 | |
| Ave. reservoir pressure, beg. or period | 074.4 | L | 073.8 | | 003.0 | L | 014.1 | |
| Tuck Trigg Reservoir Operation | ons | | | | | | | |
| Native Gas | | | | | | | | |
| Total in place, beg. of period | 5,231,108 | | 5,233,991 | | | | 5,890,000 | |
| Recoverable in place, beg. of period | 4,561,108 | | 4,563,991 | | | | 5,220,000 | |
| Production during period to date | 0 | | 2,883 | | | | 658,892 | |
| Total in place, end of month | 5,231,108 | | 5,231,108 | | | | 5,231,108 | |
| Recoverable in place, end of month | 4,561,108 | | 4,561,108 | | | | 4,561,108 | |
| Ave. reservoir pressure, beg. of period | 196.7 | Г | 407.0 | | | Γ | E48.0 | |
| Ave. reservoir pressure, beg. of period | 486.7 | L | 487.0 | | | L | 548.0 | |